



BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

Curriculum Checklist

Effective First Semester, SY 2021-2022

CHED Memorandum Order No. 97, s. 2017

EVSU Board of Regents Resolution No. 87, s. 2022

Policies and Guidelines

1. College of Engineering RETENTION POLICY as per EVSU Board Resolution 110 s. 2009

A. **SCHOLASTIC DELINQUENCY**

1. A student who, at the end of the semester, obtains a failing grade in one (1) of the subjects for which he has registered will receive a **FIRST WARNING** from the Dean through the recommendation of the Head, to improve his work.
2. A student will receive a **FINAL WARNING** and be given a Probationary Status from the Dean through the recommendation of the Head if:

- i. at the end of the semester, he obtains a failing grade in two (2) of the subjects in which he has final grades;
- ii. he failed two (2) times successive in the same subject.

A student who receives a **FINAL WARNING** shall have his load for the succeeding semester limited to the extent which shall be determined by the Dean through the recommendation of the Head and may undergo counseling either by the Guidance counselor or academic adviser or both

A student who receives a **FINAL WARNING** shall have his load for the succeeding semester limited to the extent which shall be determined by the Dean through the recommendation of the Head and may undergo counseling either by the Guidance counselor or academic adviser or both

Any student who has received two successive warnings shall be placed on probation. Probation may be lifted the following semester if the student passes all his subjects in whom he/she has final grades.

A "First or Final Warning" may be removed by passing with grades of "3.0" or "Better" in all of the subjects he is registered during the succeeding semester.

3. A student shall be **DISMISSED** from the college if:

- a. At the end of the semester, he failed in three (3) or more of the subjects in which he has final grades;
- b. He failed three times successive in the same subject;

A student shall be **DISMISSED** from the college if:

- c. Failed to earn a grade of 3.0 or better in all of the subjects he is registered while he is on Probationary Status. However, he/she may be readmitted to another College of the University to which He/She qualifies.
- d. The Student earns an accumulated failing grades of 18 units or more at the end of any semester from 1st year to 3rd year

A student shall be **DISMISSED** from the college if:

- e. If a student in the 4th and 5th year fails 9 units in a semester, he/she will only be accepted after seeking approval from the college Dean; those with accumulated failures of 18 units need to submit Program of Study subject to approval of the Dean

A student who is admitted into the College must pass all his deficiencies in the Mathematics, Chemistry, Physics, and English courses within three school years of actual residence in the University.

NOTE:

- If a student fails a subject but re-enrolls it and receives a grade of 2.5 or higher during the latter semester, the original failure will not be counted in the accumulation.
- A student who gets disqualified in the college of engineering may be readmitted in other college provided they meet the admission requirements and his abilities fit for that program upon the recommendation of the Guidance Counselor and Dean of the College he is enrolled in.
- Dismissal does not apply to cases where, on the recommendation of the faculty concerned, he certifies that the grade of "5.0" were due to the students unauthorized dropping of the subjects and not to poor scholarship.
- However, if the unauthorized withdrawal takes place after the mid-semester and the student's class standing is poor, his grades of "5.0" shall be counted against him for the purpose of this scholarship rule. The Dean shall deal with those cases on their individual services; provided, that in no case of readmission to the same College shall the action be lighter than "Final Warning".

"Building Globally Competitive Professionals"



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- Grades of "Inc." must be completed and grades of "conditional failure" removed before the close of registration for the first semester of the next school year to be credited.
- For definition, a school year will consist of two semesters and one summer session.
- One semester will be equivalent to 3/7 of a school year, and one summer will be equivalent to 1/7 of a school year

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FIRST YEAR (First Semester)

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS/WEEK		UNITS	PRE-REQUISITES and CO-REQUISITES
			LEC	LAB		
	MATH 113	College Algebra	3	0	3	None
	MATH 133	Plane and Spherical Trigonometry	3	0	3	None
	MATH 112	Solid Mensuration	2	0	2	None
	MATH 153	Analytic Geometry	3	0	3	None
	CHEM 114	Chemistry for Engineers**	3	3	4	None
	DRR 113	Disaster Risk Reduction and Education in Emergencies	3	0	3	None
	GEN ED 002	Understanding the Self	3	0	3	None
	PE 112	(PATHFIT) Movement Competency Training	2	0	2	None
	NSTP 113	CWTS, LTS, MTS (Naval or Air Force)	3	0	3	None
TOTAL			25	3	26	

Note: **Course with laboratory fee.

FIRST YEAR (Second Semester)

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS/WEEK		UNITS	PRE-REQUISITES and CO-REQUISITES
			LEC	LAB		
	MATH 124	Calculus 1	4	0	4	MATH 113, MATH 133, MATH 112, MATH 153
	GEN ED 001	Purposive Communication	3	0	3	NONE
	CHE 125	Analytical Chemistry**	4	3	5	CHEM 114
	GEN ED 007	The Contemporary World	3	0	3	NONE
	COMP 121	Computer Fundamentals & Programming*	0	3	1	NONE
	GEN ED 004	Mathematics in the Modern World	3	0	3	NONE
	PE 122	(PATHFIT) Fitness Training	2	0	2	NONE
	NSTP 123	CWTS, LTS, MTS (Naval and Air Force)	3	0	3	NSTP 113
TOTAL			22	6	24	

Note: *Comp. Course with computer fee, **Course with laboratory fee.

FIRST YEAR (Mid-Year)

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS/WEEK		UNITS	PRE-REQUISITES and CO-REQUISITES
			LEC	LAB		
	MATH 104	Calculus 2	4	0	4	MATH 124
	PHYS 104	Physics for Engineers	3	3	4	MATH 124
TOTAL			7	3	8	

SECOND YEAR (First Semester)

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS/WEEK		UNITS	PRE-REQUISITES and CO-REQUISITES
			LEC	LAB		
	CHE 213	Chemical Engineering Calculations**	2	3	3	CHEM 114
	MECH 213	Engineering Mechanics	3	0	3	PHYS 104
	MATH 213	Differential Equations	3	0	3	MATH 104
	CHE 215	Organic Chemistry**	4	3	5	CHE 125
	EDA 213	Engineering Data Analysis	3	0	3	MATH 124
	RIZAL 001	Rizal's Life and Works	3	0	3	NONE
	GEN ED 003	Readings in Philippine History	3	0	3	NONE
	GEN EL 001	People and the Earth's Ecosystems	3	0	3	NONE
	PE 212	(PATHFIT) Dance, Sport, Group Exercise, Outdoor and Adventure Activities - 1	2	0	2	NONE
TOTAL			26	6	28	

Note: *Comp. Course with computer fee, **Course with laboratory fee.

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SECOND YEAR (Second Semester)

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS/WEEK		UNITS	PRE-REQUISITES and CO-REQUISITES
			LEC	LAB		
	CHE 223	Momentum Transfer**	2	3	3	CHE 213, MATH 213
	GEN ED 008	Science, Technology, and Society	3	0	3	NONE
	CHE 243	Physical Chemistry for Engineers 1**	2	3	3	CHE 125, MATH 104
	CHE 283	Fundamentals of Materials Sci. & Engineering	3	0	3	CHE 215
	CHE 263	Advanced Engineering Math in ChE	3	0	3	MATH 213
	CAD 221	Computer Aided Design*	0	3	1	NONE
	GEN ED 005	Art Appreciation	3	0	3	NONE
	GEN EL 002	Gender and Society	3	0	3	NONE
	PE 222	(PATHFIT) Dance, Sport, Group Exercise, Outdoor and Adventure Activities - 2	2	0	2	NONE
TOTAL			21	9	24	

Note: *Comp. Course with computer fee, **Course with laboratory fee.

THIRD YEAR (First Semester)

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS/WEEK		UNITS	PRE-REQUISITES and CO-REQUISITES
			LEC	LAB		
	CHE 314	Heat and Mass Transfer**	3	3	4	CHE 223
	EE 313	Basic Electrical and Electronics Engineering**	2	3	3	PHYS 104
	CHE 333	Physical Chemistry for Engineers 2**	2	3	3	CHE 243
	CHE 353	Chemical Engineering Thermodynamics	3	0	3	CHE 243, CHE 213
	GEN ED 006	Ethics	3	0	3	3 rd Year Standing
	CHE 371	Methods of Research**	0	3	1	CHE 243, CHE 213, GEN ED 001, EDA 213
	ENV 313	Environmental Science and Engineering	3	0	3	NONE
	CHE 391	Computer Applications in ChE*	0	3	1	COMP 121
TOTAL			16	15	21	

Note: *Comp. Course with computer fee, **Course with laboratory fee.

THIRD YEAR (Second Semester)

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS/WEEK		UNITS	PRE-REQUISITES and CO-REQUISITES
			LEC	LAB		
	CHE 344	Chemical Reaction Engineering**	3	3	4	CHE 263, CHE 333, CHE 314
	CHE 321L	Chemical Engineering Lab 1**	0	3	1	CHE 314, CHE 223
	CHE 323	Particle Technology**	2	3	3	CHE 223
	CHE 324	Separation Processes**	2	3	3	CHE 353, CHE 314
	CHE 363	Chemical Process Industries	3	0	3	CHE 215
	CHE 383	Solution Thermodynamics	3	0	3	CHE 353, CHE 263, CHE 391
	CHE 343	Track Specialization 1 (Food and Drug Manufacturing)	3	0	3	
	ECON 323	Engineering Economics	3	0	3	Third Year Standing
TOTAL			19	12	23	

Note: **Course with laboratory fee.

THIRD YEAR (Mid-Year)

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS	UNITS	PRE-REQUISITES and CO-REQUISITES
	CHE 302	Chemical Engineering Immersion	240	2	Passed all previous Professional Subjects
TOTAL			240	2	

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FOURTH YEAR (First Semester)

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS/WEEK		UNITS	PRE-REQUISITES and CO-REQUISITES
			LEC	LAB		
	CHE 412	Chemical Engineering Design 1**	1	3	2	CHE 324, CHE 344, CHE 323
	CHE 433	Biochemical Engineering	3	0	3	CHE 344, CHE 215
	CHE 411L	Chemical Engineering Lab 2**	0	3	1	CHE 321L
	CHE 451L	Chemical Process Lab**	0	3	1	CHE 412
	MGT 412	Engineering Management	2	0	2	ECON 323
	CHE 471	Chemical Engineering Laws and Ethics	1	0	1	GEN ED 006
	CHE 411	Process Safety	1	0	1	4 th Year Standing
	CHE 413	Track Specialization 2 (Packaging Technologies)	3	0	3	CHE 343
TOTAL			11	9	14	

Note: **Course with laboratory fee.

FOURTH YEAR (Second Semester)

GRADE	COURSE NO.	DESCRIPTIVE TITLE	NO. OF HOURS/WEEK		UNITS	PRE-REQUISITES and CO-REQUISITES
			LEC	LAB		
	CHE 423	Chemical Engineering Design 2**	2	3	3	CHE 412
	CHE 443	Process Dynamics and Control**	2	3	3	CHE 263
	GEN EL 003	Technopreneurship	3	0	3	MGT 412
	CHE 463	Industrial Waste Management and Control	3	0	3	ENV 313, CHE 323
	CHE 441	Plant Inspections and Seminars**	0	3	1	CHE 412
	CHE 403	Track Specialization 3 (Biotechnology)	3	0	3	CHE 413
	CHE 402C	Special Topics**	0	6	2	Passed all previous Professional Subjects
TOTAL			13	15	18	

Note: **Course with laboratory fee.

Note: The nth Year Standing means that the student must have completed at least 75% of the load requirements of the previous year level.

SUMMARY OF THE BSCHE CURRICULUM		
CLASSIFICATION/FIELD	MINIMUM NUMBER OF UNITS PER CMO 91 s. 2017	EVSU BSCHE CURRICULUM
I TECHNICAL COURSES		
A. Mathematics and Physical Sciences	20	22
B. Basic Engineering Sciences	7	7
C. Allied Courses	22	22
D. Professional Courses	71	73
SUB TOTAL	120	124
II GENERAL EDUCATION/ELECTIVES/MANDATED COURSES		
A. General Education Courses	24	24
B. General Electives	9	9
C. Mandated Course	17	17
SUB TOTAL	50	50
III Add-on Courses		
A. Mathematics Course		11
B. DRR		3
SUB TOTAL		14
TOTAL NUMBER OF UNITS	170	188

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List of Electives, Track Specialization and Add-on Courses

Professional Courses - Elective	Track Specialization	General Education Elective	Add-on Courses
Special Topics	Food and Drug Manufacturing	People and the Earth's Ecosystems	Disaster Risk Reduction and Education in Emergencies
	Packaging Technologies	Gender and Society	MATH 113 (College Algebra)
	Biotechnology	Technopreneurship	MATH 133 (Plane and Spherical Trigonometry)
	Energy Engineering		MATH 112 (Solid Mensuration)
	Environmental Management		MATH 153 (Analytic Geometry)
	Petrochemical Engineering		
	Paints and Coating Technology		
	Materials and Science Engineering		
	Technopreneurship		
	Emerging Technologies		

CHED NOTED

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Date: 11-24-2021

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